ACCUGLIDE SAWS
PRECISION CUTS EVERY TIME

USER'S GUIDE

MITER CUTTING WORKSTATION

Introduction to the

MITER CUTTING WORKSTATION

Dear Customer,

Welcome to the AccuGlide Miter Cutting Workstation - we know you'll love using it! And thanks for taking the time to read through this user guide. Before you begin miter cutting, there is important information you need to know about your new equipment.

Your AccuGlide and MiterMaster jig system has been designed to make the cutting operation and learning curve as easy as possible. However, miter cutting is still the most technical cutting you can do, so we recommend making several practice cuts with stone remnants to familiarize yourself with the system.

While reading these instructions or while miter cutting with your AccuGlide, please always remember that we are only a phone call away so please don't hesitate to reach out to us. We're here to help!

Sincerely,

The AccuGlide Team

Customer Service and Product Support

Please let us help you whichever way is most convenient for you:

Call

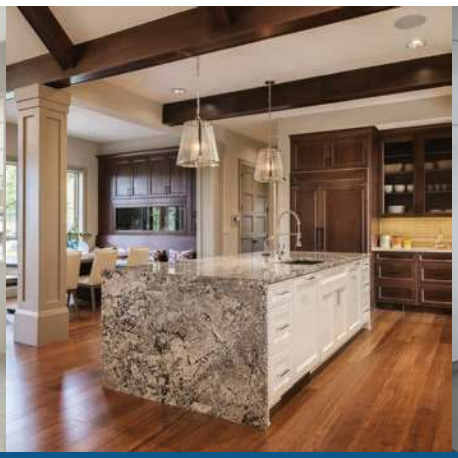
Toll Free: 888-742-0358

Email

Service@AccuGlideSaws.com

Web Form

www.AccuGlideSaws.com



Stop Here If Your AccuGlide Saw is Used

If you plan to cut miters with a *used* AccuGlide Saw, you will likely need to calibrate it first. Please see page 14 for important guidance on this.

Install the VersaTable™ Miter Support Attachment Now

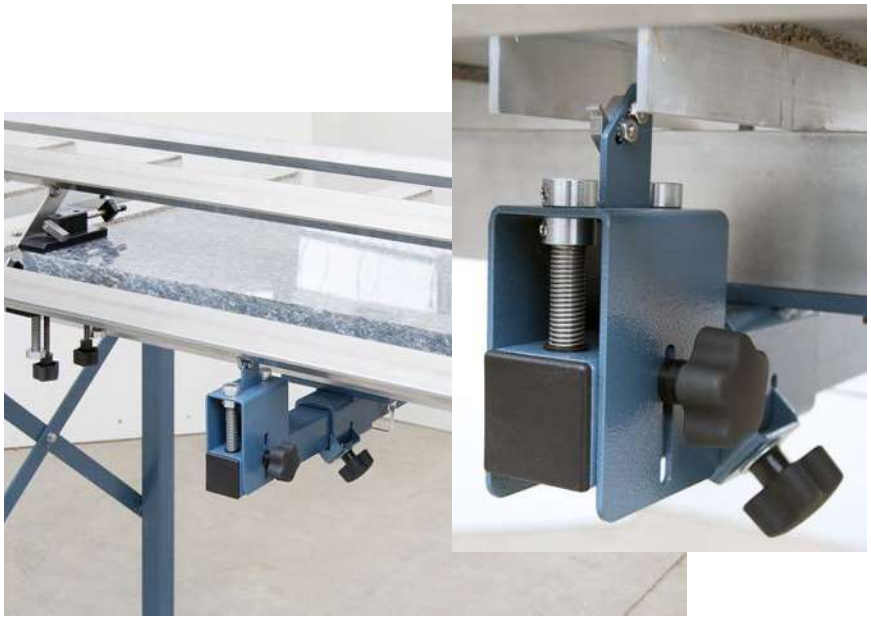
(Sold separately as an optional upgrade)

The VersaTable™ Miter Support Attachment is an optional upgrade to support the lower saw track on miter cuts longer than 72".

If you are using this attachment with your Miter Cutting Workstation, it should be installed on the VersaTable™ before beginning to setup your miter cut.

Please consult assembly and installation instructions that were provided with the VersaTable™ Miter Support Attachment.

The Support Attachment arm should be pushed all the way in, out of the way under the table, until ready to be used.



Your Miter Cutting Workstation Includes...

AccuGlide Saw of Your Choice (Qty 1)

12.5' Standard Tracks (1 Set)

7.5' Quick Lock Tracks (1 Set)

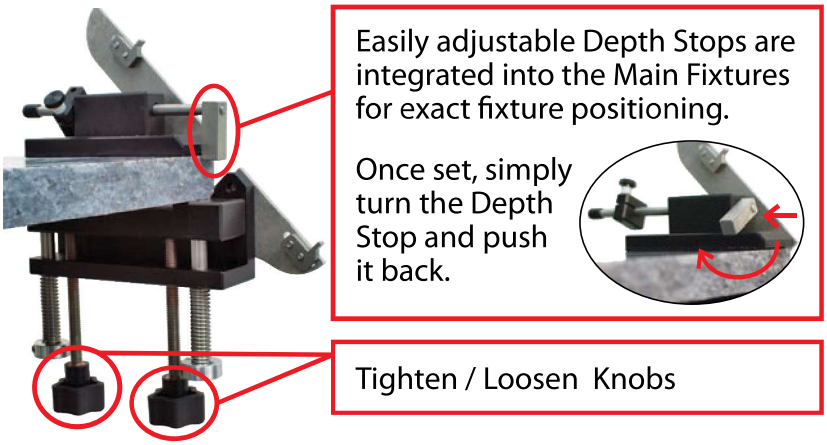
VersaTable™ (Qty 1)

This is a key component of your Miter Cutting Workstation. It has a larger 3'x8' work area as well as a flat, rigid top with CBU cutting surface. Remember: Your miter cut will only be as straight as your table is flat. Make sure your table is sitting on level ground and use a straightedge and level to ensure your table is flat before beginning.

The most important feature of this table is the cantilever arm design that extends past the edge of the table rail. These arms support the miter fascia strips that are precut prior to mitering. This is especially important on marble, exotic granites, or any other stone material where you will be bookmatching or butterfly matching the seam for a matching grain flow at the miter seam. The cantilever design allows the thin miter fascia strip to be supported while still providing an area for the miter fixtures to clamp to the edge of the workpiece.

Left and Right Main Fixtures (Qty 1 Each)

These hold your AccuGlide tracks in the proper position for cutting a perfect 46º miter. Why 46º and not 45º? See page 16 for more details.



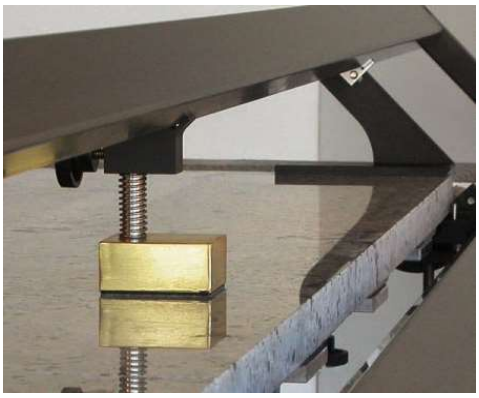
Inside Corner Fixture (Qty 1)

Use this fixture, paired with either the Right or Left Miter Fixture, for cutting miters on inside corners of L-shaped work pieces.

NOTE: The Inside Corner Fixture allows for the majority of a miter cut to be made on a L-shaped work piece, but not all of it. The last few inches closest to the inside corner that the saw blade cannot reach, will need to be cut by hand using a 5" circular saw with a 45 degree tilt. We recommend using the Makita 4101RH Wet Cutting Saw.

In-Line Support Fixture (Qty 1)

Use this fixture to support the upper track for on all cuts over 72".



In-Line Support Monopod Leg (Qty 1)

Use this fixture to support the lower track for on all cuts over 72".

Additional Items

- Premium 8" QT™ Diamond Blade (qty 1)
- Quiet & True Hub (qty 1)
- 5/8" Diamond knockout hub (qty 1)
- Patented stainless steel Calibration Indicators (qty 2)
- 25' Quick-connect polyurethane water supply/wash hose (qty 1)
- Industrial GFCI: 20 amp circuit, 15 amp plug with 20' SO cord

Getting Started

There are two miter cutting sequences that you'll want to choose from before beginning:

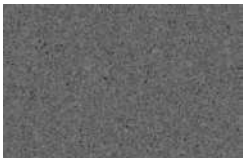
1) The Standard Miter Setup

2) The Bookmatch Miter Setup

Use the Standard Miter Setup when cutting stone that is consistent in color and without pattern. For example, tight grain granites such as Absolute Black, and any solid color Quartz, are best cut with the Standard Miter setup.



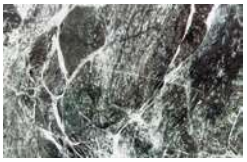




Use the Bookmatch Miter Setup when cutting any stone or quartz that has a pattern, veining or a larger crystal structure.





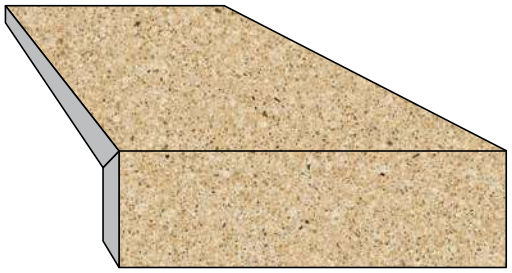


With both miter setup sequences, you will measure and cut each workpiece to include the miter fascia strip and the blade kerf (width of blade's cut path) in addition to the full measurement of the finished product.

Example: If you are cutting a countertop with the finished depth of 26-½" and a 2" drop miter edge, you will need to cut the initial workpiece to 28-9⁄16" deep. That measurement includes the 26-½" for the finished countertop plus 1⁄16" for the blade kerf plus 2" for the miter fascia strip.

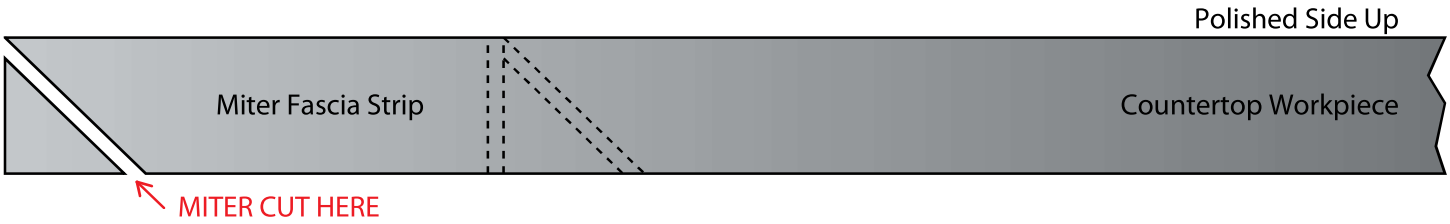
26-½" (countertop) + 1⁄16" (blade kerf) + 2" (miter fascia) = 28-9⁄16" (depth of initial workpiece)

Standard Miter Setup



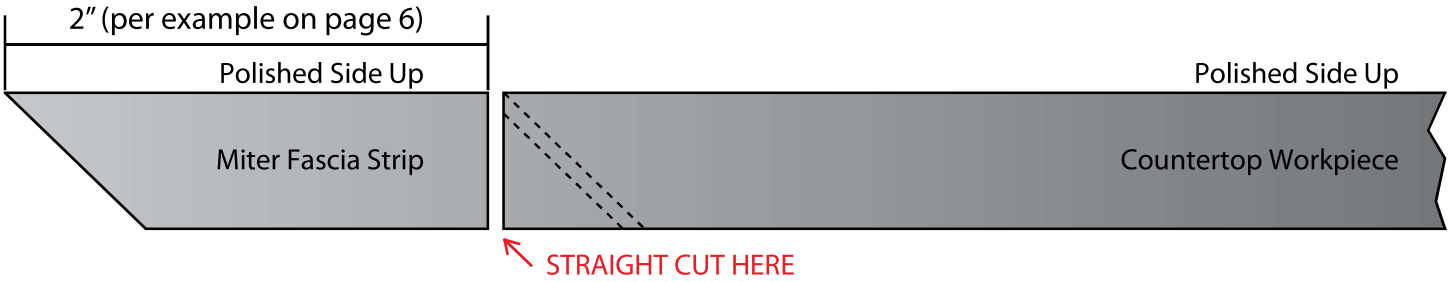
Step A-1: Cut the First Miter on the Fascia Strip

Cut the first miter off the edge of the initial workpiece using the MiterMaster™ jig.



Step A-2: Cut the Fascia Strip off the Countertop Workpiece

Measure the depth of the miter fascia strip and cut it off of the countertop workpiece. You will not need the MiterMaster™ jig for this step, just your saw and tracks.



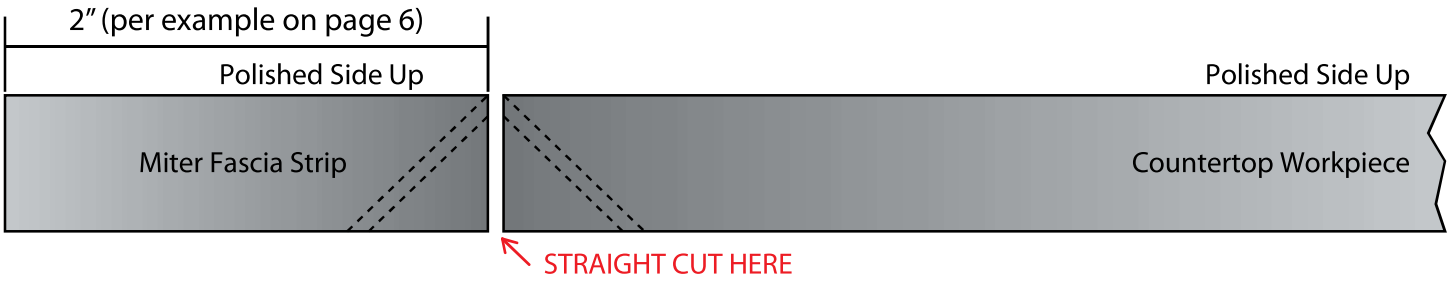
Step A-3: Cut the Second Miter on the Countertop Workpiece

Cut the second miter off the edge of the countertop workpiece using the MiterMaster™ jig.

Bookmatch Miter Setup

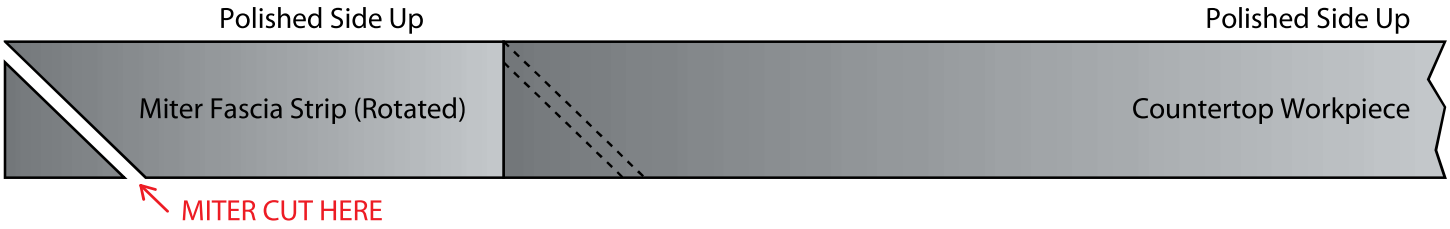
Step B-1: Cut the Fascia Strip Off the Countertop Workpiece

Measure the depth of the miter fascia strip and cut it off of the countertop workpiece. You will not need the MiterMaster™ jig for this step, just your saw and tracks.



Step B-2: Rotate Miter Fascia Strip 180° (Leaving Polished Side Up) and Cut the First Miter

Once the miter fascia strip is rotated 180°, clamp the MiterMaster™ jig to both the miter fascia strip and the countertop workpiece. Cut the first miter.



Step B-3: Cut the Second Miter on the Countertop Workpiece

Cut the second miter off the edge of the countertop workpiece using the MiterMaster™ jig.

Level Your VersaTable™ / Work Surface:

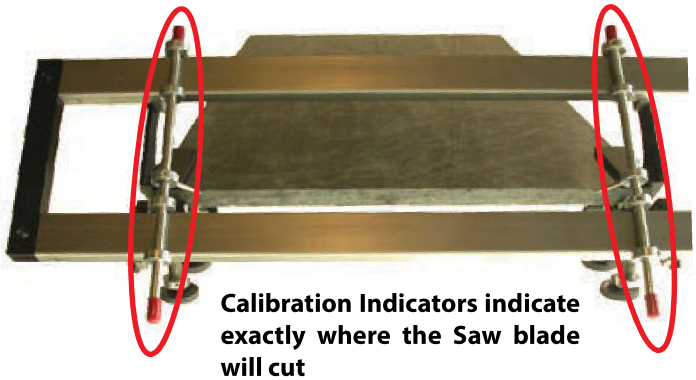
To ensure the very best miter cuts using the Miter Cutting Workstation, your work piece MUST be on a completely flat and level surface. To cut a full miter, you want the finished side up. If you plan to cut a bevel profile between .25" and 1.5", place your workpiece finished side down (don't forget to use padding to prevent scratching the finished surface).

Set Depth Stops on Main Fixtures:

The Miter Cutting Workstation's Main Fixture depth stop position determines the size of the bevel cut. After adjusting the Main Fixtures to cut the desired depth, lock the depth stops in place for consistent miters every time. We recommend cutting a few test pieces to get a feel for the Miter Cutting Workstation before cutting a real job.

Step C-1: Clamp Main Fixtures to Left and Right Edges of Work Piece

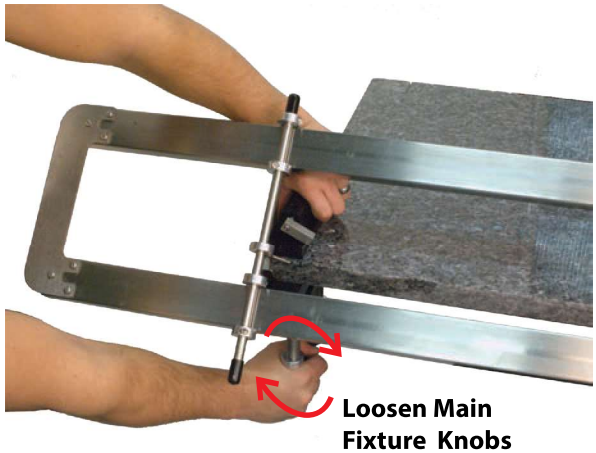
Step C-2: Place Your Tracks on Main Fixtures and Place Calibration Indicators



Calibration Indicators indicate exactly where the Saw blade will cut

Step C-3: Loosen Main Fixture Knobs

Turn the Main Fixture Knobs a few times, loosening the Main Fixtures just enough to allow them to slide forward or backward.

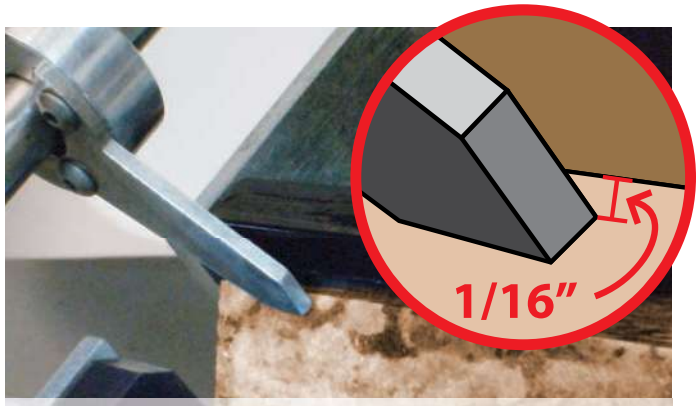


Loosen Main Fixture Knobs

Set the Depth Stops on Main Fixtures (...continued):

Step C-4: Adjust Position of Main Fixtures

To cut a full mitered edge, slide the Main Fixture until the Calibration Indicator pointer is 1/16" below the top edge of the stone. If cutting a bevel profile, you may choose any custom position that suits your needs.



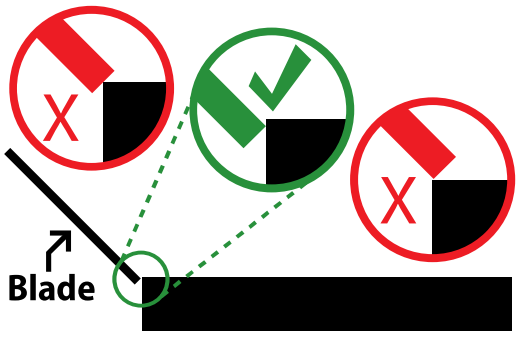
For a full miter, the Calibration Indicator Pointer should be 1/16" below the top edge of the stone

Step C-5: Tighten Main Fixture Knobs

Turn the Main Fixture Knobs evenly, tightening each knob one turn at a time until the fixtures are secure. Don't tighten unevenly (completely tightening one knob at a time) as this could cause slight position change. Do not over tighten. Double check Calibration Indicator Pointers to verify that they have not moved.

Step C-6: Place Saw on Tracks and Check Blade Position

Carefully place your AccuGlide Saw on the tracks. Lower the blade to almost touch the work piece. With the saw turned off, slide it over the tracks for the entire length of the cut, visually checking to verify that the blade will be cutting in the proper position. If the blade path is not correct for the entire length of the cut - for lengths less than 60" - repeat steps C-4 and C-5.

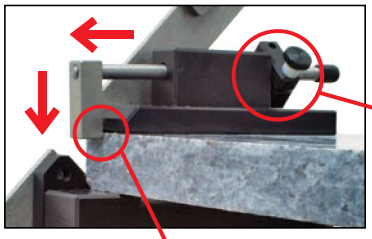


Check blade position

NOTE: If you're cutting 60" or longer, you need to use the In-Line Support Fixture(s). See page 11 for further instructions.

Step C-7: Set and Lock the Depth Stops

On both Main Fixtures (with pinch block loose) slide the Depth Stop out, tilt down, and push into contact with the stone's edge. Tighten the pinch block against the back side of the fixture. Once set, tilt the Depth Stop up and push it back, out of the way.

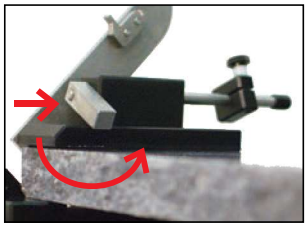


Tighten the pinch block against the back side of the fixture.

Depth Stop should contact front edge of work piece

NOTE: For Cutting Inside Corners...

Follow these same steps using the Inside Corner Fixure in place of the Left or Right Main Fixture. Since the MiterMaster™ system can only allow miter cutting to within a few inches of any inside corner, you will need to finish these miters by hand. We recommend using the Makita Saw model 4101RH or something similar.



Once set, turn Depth Stop up and push back

In-Line Support For Cuts Longer Than 72"

The In-Line Support Fixture for the upper track, and the In-Line Suport Monopod Leg (or the optional VersaTable™ Miter Support Attachment) for the lower track, add a level of adjustability to the center of your miter cut to ensure that the blade position is accurate for the entire length of the cut.

Always use the In-Line Support Fixture and Monopod Leg centered on the tracks for cuts 72" or longer. One In-Line Support Fixture and one Monopod Leg are included with the Miter Cutting Workstation.

As a final step to setting up your cut, always check the blade position, especially in the center of the cut, before beginning.

If the blade position at the center of the cut is low, correct it by using the In-Line Support Fixture and Monopod Leg to raise the center of the track (see Steps D-2 and D-3).

In-Line Support Fixture

Using In-Line Support Fixture:

Before beginning the following steps, place one of the Calibration Indicators on the tracks near where the In-Line Support Fixture will be placed. This will ensure that any adjustments to the upper track position is also made to the lower track.

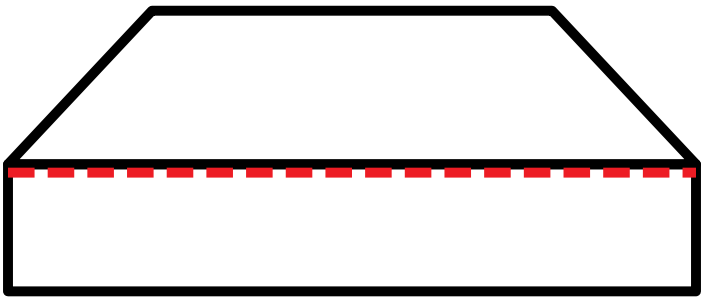
Step D-1: Compress In-Line Fixture Spring and Place Fixture

Loosen the In-Line Support Fixture locking knob and push the perch down, compressing the spring. Place the fixture underneath the track and let the perch up. The track should sit squarely in the nook of the perch as pictured above. The base should be sitting flat on the workpiece. Tighten the locking knob.

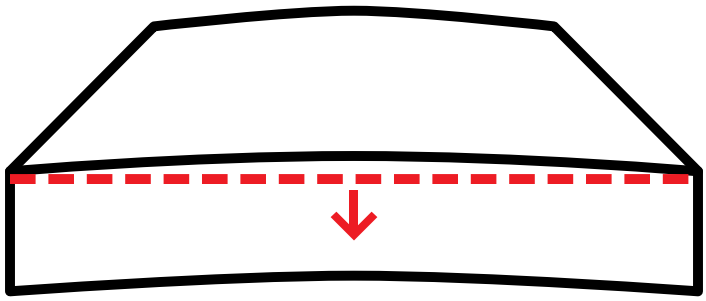
Step D-2: Place Saw on Tracks and Check Blade Position

With the saw turned off, slide it over the tracks for the entire length of the cut, visually checking to verify that the blade will be cutting in the proper position. See diagram below.

If the blade position...



...looks good: Proceed to "Using In-Line Support Monopod Leg"

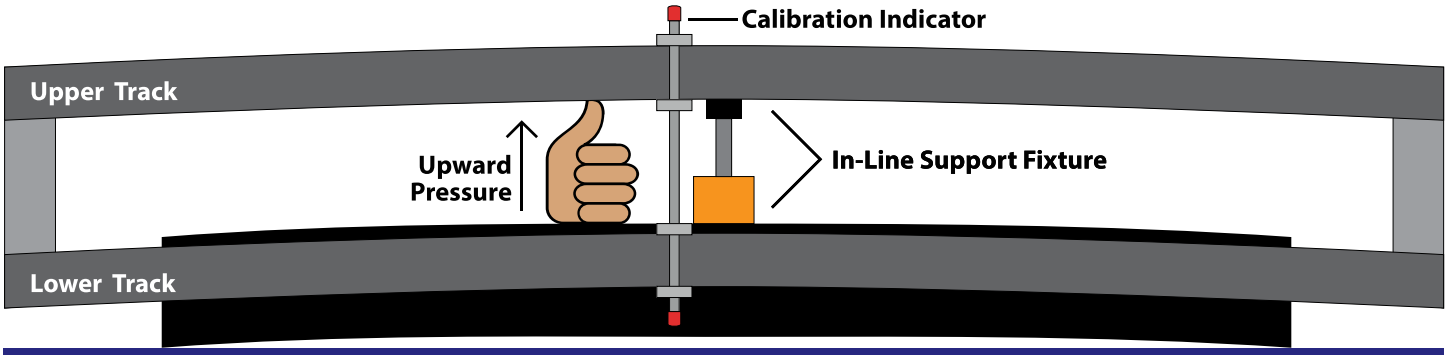


...is low in the middle: See step D-3

Using In-Line Support Fixture (...Continued):

Step D-3: If Cut Line is Low in the Middle - Lift Track Using In-Line Support Fixture

Loosen the In-Line Support Fixture locking knob. Make a "thumbs up" near the In-Line Support Fixture, between the workpiece and upper track. Apply upward pressure with your thumb to lift the track slightly, then tighten the Knob (see diagram below). Leaving the Calibration Indicator in place, put the saw on the tracks and check the blade position at the center of the cut. If blade position looks good, proceed to Step D-4.



Using In-Line Support Monopod Leg:

Note: If using the VersaTable™ Miter Support Attachment - skip step D-4

Step D-4: Put In-Line Support Monopod Leg in Place Under Lower Track

The Calibration Indicator should still be located near the center of the tracks. Place the Monopod Leg under the center of the lower track, aligned horizontally with the Support Fixture on the upper track. The lower track should sit squarely in the nook of the perch of the Monopod Leg as pictured. Extend the Monopod Leg so that it fits snugly between the lower track and the floor/ground, but without raising the track from its set position. Lock the Monopod Leg in place. Remove the Calibration Indicator and place the saw on the tracks to check the blade position along the length of the cut. If the cutline of the blade is where it should be, then setup is complete. If adjustment is needed, repeat steps D-3 and D-4.

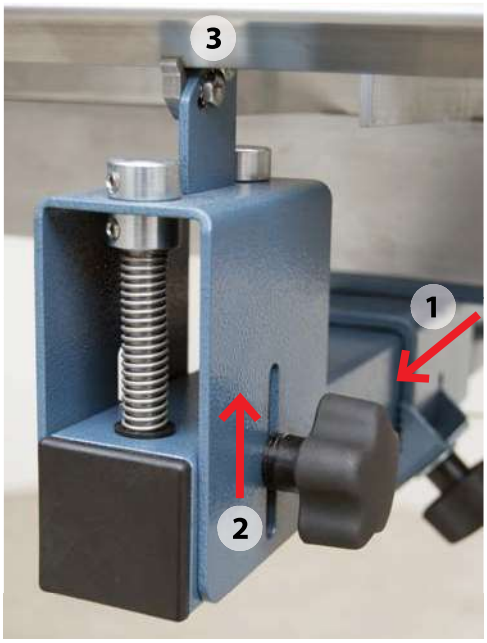
In-Line Support Monopod Leg

Using VersaTable™ Miter Support Attachment:

If you are using the VersaTable™ Miter Support Attachment (sold separately as an optional upgrade), it should be installed on the VersaTable™ before beginning to setup your miter. Please consult assembly/installation instructions that were provided with the VersaTable™ Miter Support Attachment.

The Support Attachment arm should be pushed all the way in, out of the way under the table, for all the preceding steps.

Miter Support Attachment should be out of the way under the table.



Step D-5: Position VersaTable™ Miter Support Attachment Under Lower Track

Once steps D-1 thru D-3 are complete and the In-Line Support Fixture is in place on the upper track for correct cut position, loosen the knob on the Miter Support Attachment adjustment arm and pull it out (1) so that the support perch is situated directly under the lower track.

Loosen the knob on the perch height adjustment plate to bring the support perch up (2). The lower track should sit squarely in the nook of the perch of the Miter Support Attachment as pictured (3).

Pull adjustment arm out under lower track (1). Raise perch (2). Track should sit squarely in nook of perch (3).

Step D-6: Tighten Miter Support Attachment Arm In Place

With the Miter Support Attachment in place and supporting the lower track, tighten the knob on the perch height adjustment plate. Also tighten knob on the adjustment arm to secure in place.

Remove the Calibration Indicator and place the saw on the tracks to check the blade position along the length of the cut. If the cutline of the blade is where it should be, then setup is complete. If adjustment is needed, repeat steps D-3 and D-4.

Tighten both knobs to secure Miter Support Attachment in place.

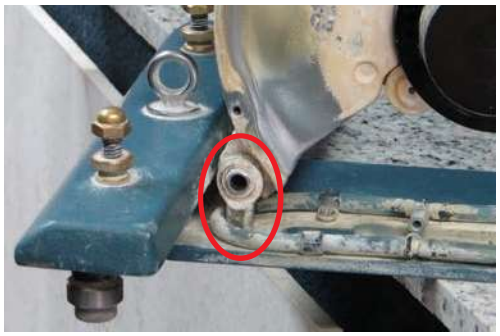
Calibrate Your AccuGlide Saw Before Cutting Miters:

NOTE: These steps are not required if you are using a new AccuGlide Saw.

Step E-1: Review Heim Joints

Heim Joints are the pivot posts that connect the blade guard to the saw carriage. After extensive cutting, Heim Joints begin to wear and get "wobbly". **They should be replaced as needed. We recommend every 18-24 months (depending on saw usage).**

Check to see if your Heim Joints are worn. To do this, start by loosening the elevation knob (the black knob on the blade guard side of the saw). Try to rock the saw, applying side-to-side pressure to the motor handle. If rocking movement is clearly evident at the Heim Joints, they must be replaced. Use the provided Heim Joint Kit and instructions to change them out.



There are 2 Heim Joints, one on each side of the blade guard.

Step E-2: Calibrate Glide Pins

AccuGlide Saws are designed to glide smoothly over stainless steel tracks on four threaded thermoplastic polymer bolts called Glide Pins. Glide Pins are consumable. They are meant to wear down so that your saw and tracks don't. The two Glide Pins closest to the blade will wear down more rapidly due to increased exposure to abrasive stone slurry. **We recommend re-adjusting your Glide Pins every 15-20 hours of operation to maintain a square cut.** To adjust your glide pins, please refer to the instruction sheet provided or watch he instructional video at https://accuglidesaws.customerhub.net/videos.

To change Glide Pins you will need 4 new Glide pins, a machinist square, and 4 plastic spacers (see Glide Pins instruction Sheeet for more information)

Your AccuGlide Saw glides smoothly over stainless steel tracks on four threaded thermoplastic polymer bolts called Glide Pins.

Step Cutting

Whether you are using your AccuGlide Saw to cut 90° or 46° - it's important to always cut in steps. We recommend cutting no more than 1 cm per pass. This is especially important for the first pass of a miter cut. The first pass will serve as a guide for all the step cuts to follow.

There are several reasons why step cutting is so important:

- Step cutting requires less pushing force. Cutting miters in a single pass requires more pushing force. This excessive pressure may cause the cut to deviate from the desired cut path. Step cutting prevents cut path deviation, which is especially important on the first pass/guide cut.
- By step cutting, your AccuGlide Saw motor will last much longer.
- By step cutting, your diamond blades will last longer and not overheat. Overheating is common when cutting through in a single pass. Step cutting prevents this from happening, extending the life of your blade, and reducing tooling cost per year.

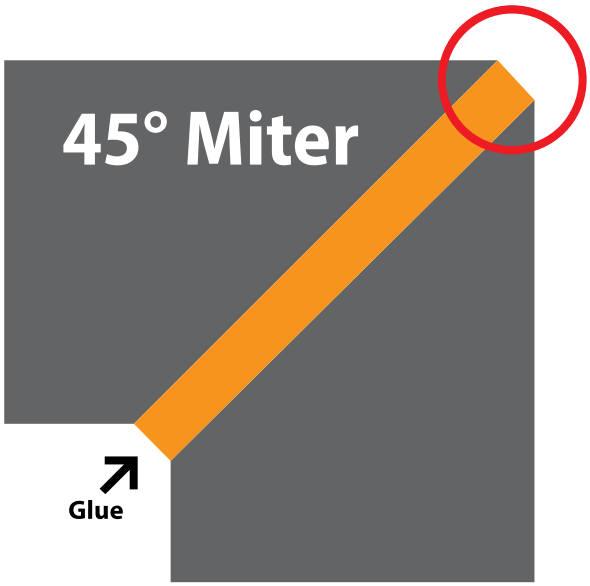
NOTE: Set the depth of the last step cut to 1/16" past the bottom of the stone work piece and into the table's cement composite surface - but do not allow the blade to cut into the metal supports under the CBU board.

Additional Suggestions

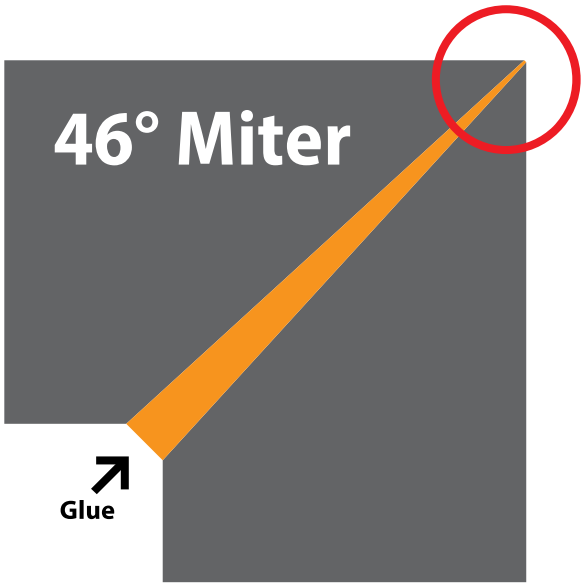
- Cutting into the front edge of the work piece, rather than into the polished top surface, will substantially reduce the risk of chipping.
- When setting up for miters on an inside corner, use the Inside Corner Fixture. But remember, since the Miter Master system can only allow miter cutting to within a few inches of any inside corner, you will need to finish these miters by hand. We recommend using the Makita Saw model 4101RH or something similar.
- You may need to use a 9" blade on your AccuGlide Saw while cutting miters in limestone, flagstone, and sandstone. With a 9" blade, you can cut up to a 2.25" miter or bevel profile.
- DO NOT use a 9" blade on any hard stone such as granite.
- Use an 8" electoplated blade for soft marble.
- If you have any specific or general questions about stone fabrication - please feel free to give us a call or email us and we will be happy to help! Our phone number is 888-742-0358 and our email is service@accuglidesaws.com. If you are outside of the USA or Canada, please call 805-466-9280.

Why Cut 46° Rather Than 45°?

The reason for cutting your miters at 46° rather than 45° is to allow room for adhesive within the seam, while minimizing the amount glue on the visible side of the seam.



Glue Visible In Seam



Virtually Invisible Seam

NOTE: Glue and cut angle in diagram are exaggerated for illustrative purpose.

Notes:

Notes:

ACCUGLIDE SAWS

PRECISION CUTS EVERY TIME

ACCUGLIDESAWS.COM

For help or questions please contact us:

USA & Canada: **888-742-0358**

International: **805-466-9280**

Email: **service@accuglidesaws.com**